

Claims

1. A fixed type constant velocity joint comprising an outer joint member formed with axially extending ball grooves at circumferentially equispaced positions on the inner spherical surface, an inner joint member formed with axially extending ball grooves at circumferentially equispaced positions on the outer spherical surface, balls disposed in wedge-shaped ball tracks defined by the ball grooves of the outer and inner rings, and a cage interposed between the inner spherical surface of the outer joint member and the outer spherical surface of the inner joint member to hold the balls, said fixed type constant velocity joint being characterized in that the torsional angle in a torque-torsional angle diagram is approximately 0 at the time of input torque 0 Nm.

2. A fixed type constant velocity joint comprising an outer joint member formed with axially extending ball grooves at circumferentially equispaced positions on the inner spherical surface, an inner joint member formed with axially extending ball grooves at circumferentially equispaced positions on the outer spherical surface, balls disposed in wedge-shaped ball tracks defined by the ball grooves of the outer and inner joint members and a cage interposed between the inner spherical surface of the outer joint member and the outer spherical surface of the inner joint member to hold the balls, said fixed type constant velocity joint being characterized in that the torsional rigidity in the vicinity of input torque 0 Nm in the torque-torsional angle diagram is put in a range of 1.5 Nm/deg to 6 Nm/deg.

3. A fixed type constant velocity joint as set forth in Claim 1 or 2, characterized in that a pressing section which axially applies an elastic pressing force is provided on the inner joint member side, and the cage is provided with a receiving section which receives a pressing force from said pressing section.

4. A fixed type constant velocity joint as set forth in Claim 3, characterized in that the elastic pressing force acts such that the inner joint member is pushed out to the expanded side of the ball tracks through the receiving section installed in the cage.

5. A fixed type constant velocity joint as set forth in any of Claims 1 through 4, characterized in that said joint is used for steering devices.